

## **METHODS AND DEVICES FOR RE-ROUTING TRAFFIC**

### **ABSTRACT**

Multi-Protocol Label Switched (MPLS) traffic is re-routed to an alternate, Label Switched Path (LSP) to bypass a failure along a primary LSP, even though the failure occurs at or along an ingress section of an LSP, while associating an original IP  
5 address to the alternate path. Failures are also detected farther downstream outside an ingress section. When this occurs, MPLS traffic is re-routed to an alternate LSP which maintains the same quality of service as an original primary path and includes other network devices which are not a part of the primary path (except for the network device and a destination network device). The techniques require less resources than existing  
10 techniques.